	Application No.	Applicant(s)	
Notice of Allowability	10/616,056	NAM ET AL.	
	Examiner	Art Unit	
	David S. Blum	2813	
	David S. Bluffi	2013	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in b) or other appropriate commining RIGHTS. This application is so	n this application. If not included unication will be mailed in due course	
1. \square This communication is responsive to <u>6/30/06</u> .			
2. A The allowed claim(s) is/are <u>1-4,6-7,11-13,78,112-118,120</u>) -122,125-136, .		
3. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the:		or (f).	
Certified copies of the priority documents have		No	
2. Certified copies of the priority documents have			4b-a
3. Copies of the certified copies of the priority de	ocuments have been receive	o in this national stage application fro	m tne
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requireme	ents
4. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which gives			OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ıst be submitted.		
(a) I including changes required by the Notice of Draftsper	rson's Patent Drawing Review	w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			e
Attachment(s)	5 🗆 Notice of In	formal Detact Application (DTO 450)	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		oformal Patent Application (PTO-152) ummary (PTO-413),	
		/Mail Date Amendment/Comment	
 Information Disclosure Statements (PTO-1449 or PTO/SB/ Paper No./Mail Date 	(08), 7. ☐ Examiner's	Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance	1
or biological material	9. 🗌 Other	<u>.</u> .	
		•	

This is in response to the amendment filed 6/30/06.

Reasons for Allowance

- 1. Claims 1-4, 6-7, 11-13, 78, 112-118, 121-122, and 125-136 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Claims 1-4, 6-7, 11-13, 78, 112-118, 120-122, and 125-136 are allowed for reasons set forth by the applicant in the remarks filed 6/30/06. Specifically, claims 1, 78, and 121 limit the formation of an electronic device to having a dielectric material between electrodes of different composition, and where the dielectric layer decreases in titanium as the dielectric approaches the second electrode. This limitation, in combination with the other limitations of claims 1, 78, and 121 is not taught or suggested by the prior art of record.

Lim JP 2001-160557 and US 006570253) teaches increasing the level of the second electrode material within the dielectric layer as the layer approaches the area of the second electrode. Lim teaches this as a method of preventing diffusion of the electrode material into the dielectric layer. Any reversal of this would impair the intention of the Lim invention.

Claims 2-4, 6-7, 11-13, 112-118, and 120 are allowed as being properly dependent upon allowed claim 1.

Claims 125-136 are allowed as being properly dependent upon allowed claim 78.

Claim 122 is allowed as being properly dependent upon allowed claim 121.

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David S. Blum whose telephone number is (571)-272-1687) and e-mail address is David.blum@USPTO.gov.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr., can be reached at (571)-272-1702. Our facsimile number all patent correspondence to be entered into an application is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ďavid S. Blum

July 24, 2006